WORKOVER PROCEDURE

PROJECT: ARU NO. 8 - Acid Stimulation

DRILLED & COMPLETED: 10/80 LAST WO: 2/97 - Acid Stimulation

LOCATION: 1980' FNL & 660' FEL SEC. 28, T-23S, R-34E

FIELD: ANTELOPE RIDGE COUNTY: Lea STATE: NM

TD: 13,850' PBTD: 13,735' DATUM: 3502' DF KB to CHF: 28'

CASING AND LINER RECORD

SIZE	WEIGHT	DEPTH	CEMENT	HOLE SIZE	TOC	REMARKS
16"	65#	462'	950	20"	SURF	
10 3/4"	40.5-45.5#	5180'	1170	14 3/4"	3000	DV @ 1012', TOC - SURF
7 5/8"	33.7#	11,700'	1000	9 1/2"	6100'	Calc'd TOC
5"	18#	13,846'	540	6 1/2"	LNR	LINER F/11,298' - 13,846'

PRESENT FORMATION AND COMPLETION: ATOKA(12,386'-12,410') 24 SHOTS

TUBING: 5" OTIS "PLS" PKR @ 12,339' W/OSTSD & 1.71" R PROFILE, 36 JTS 2 3/8" 4.7# J-55, 2 7/8" 6.5# N-80 AB MOD W/5 GLV'S (12,297',11,764',11,003',10,065',8,415')

TBG HEAD: CIW - 11" x 10K psi THF

MISC.: 8/95 - Acidized w/2,400 gal 20% MSR. AIR - 3.5 BPM, MXP 1170#, ISIP 230#.
2/97 - Acidized w/2,400 gal 20% MSR. AIR – 5.4 BPM, MXP 694#, ISIP 380#.

PROCEDURE

Notify NMOCD 48 hrs prior to workover of intent.

1. Shut down compressor and bleed off tbg and csg to ARU Plant.
2. Load tbg w/25 Bbl 2% KCl.
3. Load csg w/120 Bbls 2% KCl + 55 gal Champion R-2264 (calc'd vol to top GLV @ 8,415').
4. Acidize Atoka (12,386'-12,410') w/2,400 gals 20% MSR-150 w/25% Methanol foamed to 50Q w/CO2 (total vol. = 4,800 gal 10% MSR-150). Displace to top perforation with 2% KCL foamed to 50Q w/CO2. Anticipated rate 2-5 BPM. Max tbg pressure = 1,000 psi. Monitor csg during job.
5. RU & flow back immediately to test tank on adjustable choke.
6. Begin gas injection into csg while flowing.
7. Turn to sales & begin testing after CO2 level drops below permissible rate.

RECEIVED
MAR 09 '00
ROSWELL, NM